

08/29/05 0600Z 12L KATRINA
08/29/05 1015Z GOES-12 IR

Louisiana Coastal Protection and Restoration (LACPR)

Plan Formulation Workshop

13-14 February 2006

Lafayette, LA

Naval Research Lab http://www.nrlmry.navy.mil/sat_products.html
--- IR Temperature (Celsius) ---

Project Overview

- Congressional Direction
- Budget
- Schedule
- Report Development
- Planning and Design Workshops
- Special Considerations

Breach near Antonio's Lagoon
Lake Borgne, St. Bernard Parish, LA



Congressional Direction

- Authorization and appropriation language included in two laws

- Energy and Water Development Appropriations Act, 2006 (P.L. 109-103), 19 November 2005

- Department of Defense Appropriations Act, 2006 (P.L. 109-148), 30 December 2005

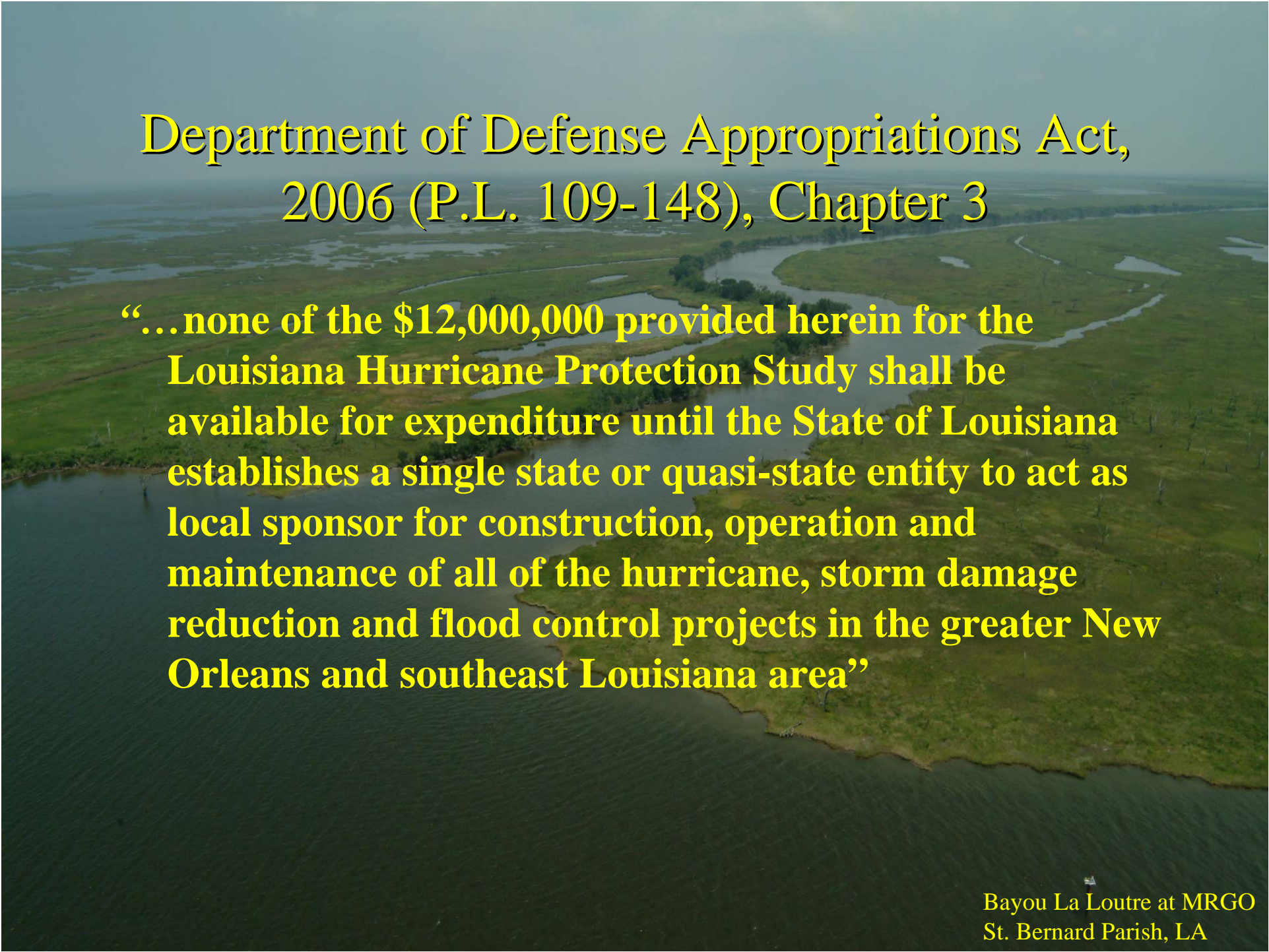
Fort Pike at The Rigolets
Orleans Parish, LA

Department of Defense Appropriations Act, 2006 (P.L. 109-148)

SEC. 5009. Public Law 109-103 amended as follows...

- **...Chief of Engineers, is directed to conduct a comprehensive hurricane protection analysis and design at full federal expense to develop and present a full range of flood control, coastal restoration, and hurricane protection measures exclusive of normal policy considerations...**
- **...submit a preliminary technical report for comprehensive Category 5 protection within 6 months...**
- **...submit a final technical report for Category 5 protection within 24 months**
- **...consider providing protection for a storm surge equivalent to a Category 5 hurricane within the project area and may submit reports on component areas of the larger protection program for authorization as soon as practicable...**
- **...analysis shall be conducted in close coordination with the State of Louisiana and its appropriate agencies.**

S Pass Light
MS River delta

An aerial photograph of a bayou in Louisiana, showing a winding waterway through a green, marshy landscape. The water is dark and reflects the sky. The land is covered in dense vegetation, with some areas appearing flooded or saturated. The sky is overcast and grey.

Department of Defense Appropriations Act, 2006 (P.L. 109-148), Chapter 3

“...none of the \$12,000,000 provided herein for the Louisiana Hurricane Protection Study shall be available for expenditure until the State of Louisiana establishes a single state or quasi-state entity to act as local sponsor for construction, operation and maintenance of all of the hurricane, storm damage reduction and flood control projects in the greater New Orleans and southeast Louisiana area”

Budget Information

- Initial appropriation amount \$8,000,000
- Second appropriation amount \$12,000,000
 - Funds provision contingent upon State of Louisiana action to unify levee and flood control bodies in and around New Orleans
- Total appropriation amount \$20,000,000

Schedule for Reports to Congress

- Preliminary Design Report due to Congress in six months (June 2006)
- Final Design Report due to Congress in twenty-four months (December 2007)

Southwest Pass
Mouth of MS River

Report Development

- **Coordination with State of Louisiana**
- **Assembly of Project Delivery Team**
 - Corps of Engineers staff
 - State agencies
 - Local Interests
 - Academic researchers
 - International managers and scientists
- **Workshops**
- **Modeling**
- **Public involvement**
- **Engineering and Design**
- **Coastal restoration planning**
- **Report to Congress**

Planning and Design Workshops

- **Wind, Waves and Water (Dec 2005 Vicksburg, MS)**
 - Held to develop state of the science for estimating maximum hurricane for design comparison and analysis
 - Included National Hurricane Center, LSU and Dutch
- **Initial Plan Formulation (Feb 2006 Lafayette, LA)**
 - Assembly of coastal professionals to develop set of three initial alternative alignments for model runs and public presentation at scoping meetings
- **Engineering Technical Approaches and Innovations (Mar 2006 Vicksburg, MS)**
 - Experts in various design fields to assess alternatives and apply both standard and innovative approaches to assist the team in preparation of information gathering plans and tools for analysis

Stone Island
Breton Sound, LA

**Congressional
Direction**

State Coordination

Policy Guidance

Dec 05

**Project Management Plan
and
Team Assembly**

Jan 06

**Broad-based Information Development
Workshops
Design Storm - Plan Formulation - E&D Approaches**

Feb 06

Mar 06

Technical Analysis and Preliminary Design

ITR

**Public Scoping and Stakeholder Involvement
Initial Technical Results**

Briefing

Apr 06

First Review Draft

IPR

Briefing

Content Coordination with State Master Plan

Briefing

May 06

Final Review Draft

Resolve Comments

Pre-printing Coordination

**Preliminary Technical
Report to Congress**

Jun 06

Special Considerations

- **Defining Category 5 storm – what is the upper limit?**
- **Future without project conditions**
 - Level of recovery in impacted parishes
 - Continued coastal erosion and wetlands losses
- **Unintended consequences**
- **Coordination with other local, state and Federal projects (i.e., SELA, Morganza, etc...)**
 - Congressionally directed hurricane protection study for coastal Mississippi

Verret-Caernarvon Levee
St. Bernard Parish, LA



QUESTIONS?

SW Pass Light
MS River delta